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# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
62644A	ACTION	as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/y	(Earliest) Priority Date (day/month/year)
PCT/US2005/005309	18/02/2005	27/02/2004
Applicant  DOW GLOBAL TECHNOLOGIES I	NC.	
according to Article 18. A copy is being th	ansmitted to the international Bureau.	ning Authority and is transmitted to the applicant
This international Search Report consists  X It is also accompanied by	a copy of each prior art document cite	
The international this Authority (Ru b. With regard to any nucleo  2. Certain claims were fou  3. Unity of invention is lace  4. With regard to the title,  X the text is approved as su	search was carried out on the basis of le 23.1(b)).  otide and/or amino acid sequence disond unsearchable (See Box ii).  king (see Box iii).	a translation of the international application furnished to sclosed in the international application, see Box No. I.
5. With regard to the abstract,  The text is approved as substantial the text has been establish may, within one month from	ned, according to Rule 38.2(b), by this	Authority as it appears in Box No. iV. The applicant all search report, submit comments to this Authority.
as selected by this		I to suggest a figure.

International Application No PCT/US2005/005309

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 CO7K1/14 C12N9/26

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 CO7K C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, CHEM ABS Data, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 628 906 A (SHINNAR ET AL) 13 May 1997 (1997-05-13) column 2 - column 4; examples 1,3; table 1	1-21
A	KREI G ET AL.: "Extraction of alpha-amylase using BDBAC-reversed micelles" BIOSEPARATION, vol. 5, no. 3, 1995, pages 175-183, XP008047247 page 176, right-hand column; table 1	
A	US 2003/003534 A1 (SHEPPARD SCOT R) 2 January 2003 (2003-01-02) page 1 - page 2; claims 1,6,7	

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
A document defining the general state of the art which is not considered to be of particular relevance  E earlier document but published on or after the international filling date  L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O document referring to an oral disclosure, use, exhibition or other means  P document published prior to the international filling date but later than the priority date claimed	<ul> <li>'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>'&amp;' document member of the same patent family</li> </ul>
Date of the actual completion of the international search  23 May 2005	Date of mailing of the international search report  03/06/2005
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Schmidt, Harald

International Application No PCT/US2005/005309

C.(Continue	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	10170320	05/005309
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No
A	SIVARS U ET AL: "Protein partitioning in weakly charged polymer-surfactant aqueous two-phase systems" JOURNAL OF CHROMATOGRAPHY B: BIOMEDICAL APPLICATIONS, ELSEVIER SCIENCE PUBLISHERS, NL, vol. 680, no. 1, 17 May 1996 (1996-05-17), pages 43-53, XP004044012 ISSN: 0378-4347 the whole document		Relevant to claim No.
	(continuation of second cheet) ( January 2004)		

International application No. PCT/US2005/005309

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report Is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

- 1. claims: 2,3 (completely) and 1,8,9 (partially)
  method for extracting using water miscible alcohol
- 2. claims: 4-7,10-21 (completely) and 1,8,9 (partially) method for extracting using glycol ether

formation on patent family members

International Application No

PCT/US2005/005309

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5628906	Α	13-05-1997	NONE		
US 2003003534	A1	02-01-2003	CA EP JP WO	2434844 A1 1356076 A1 2004520040 T 02057478 A1	25-07-2002 29-10-2003 08-07-2004 25-07-2002